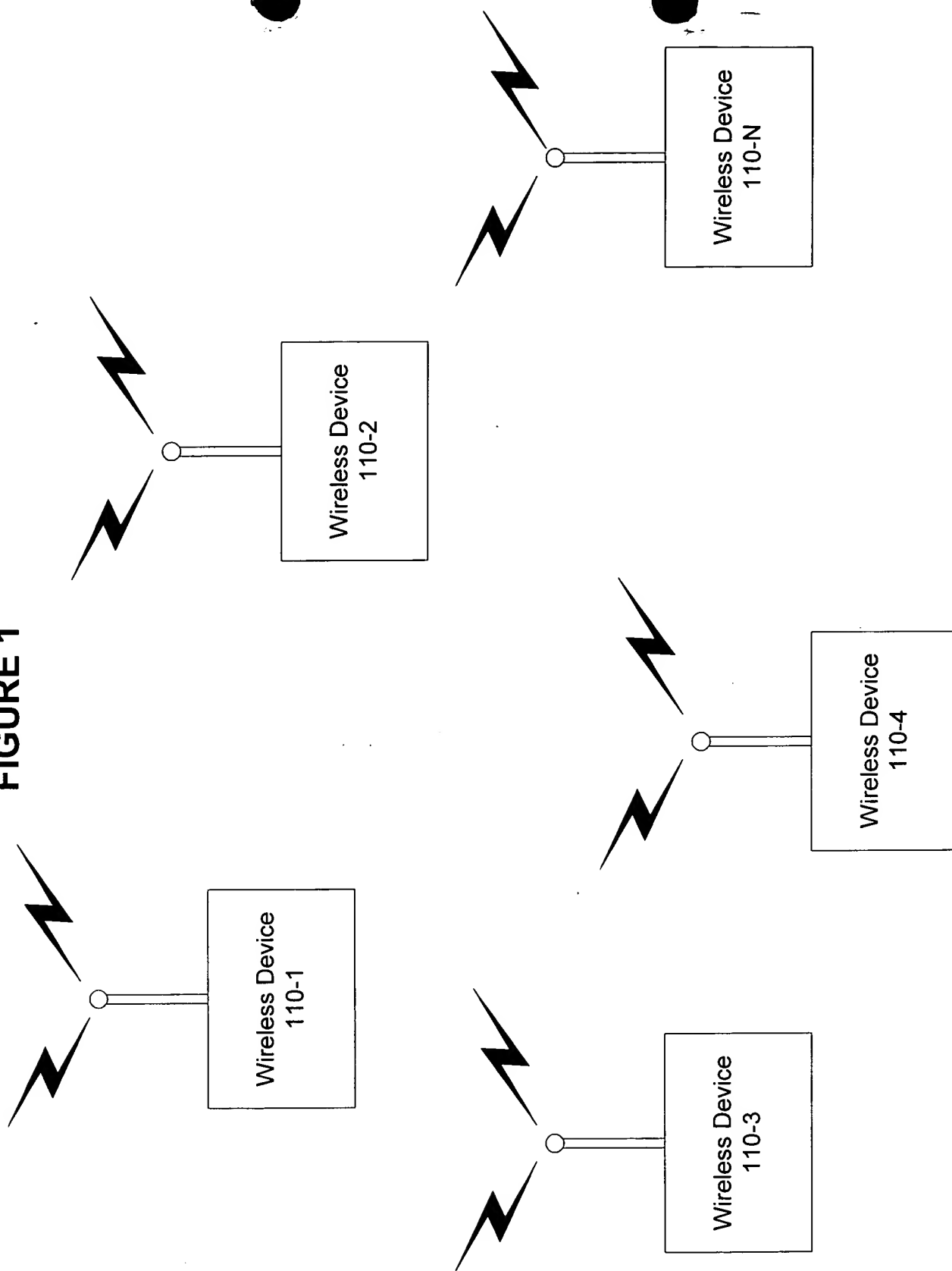


FIGURE 1



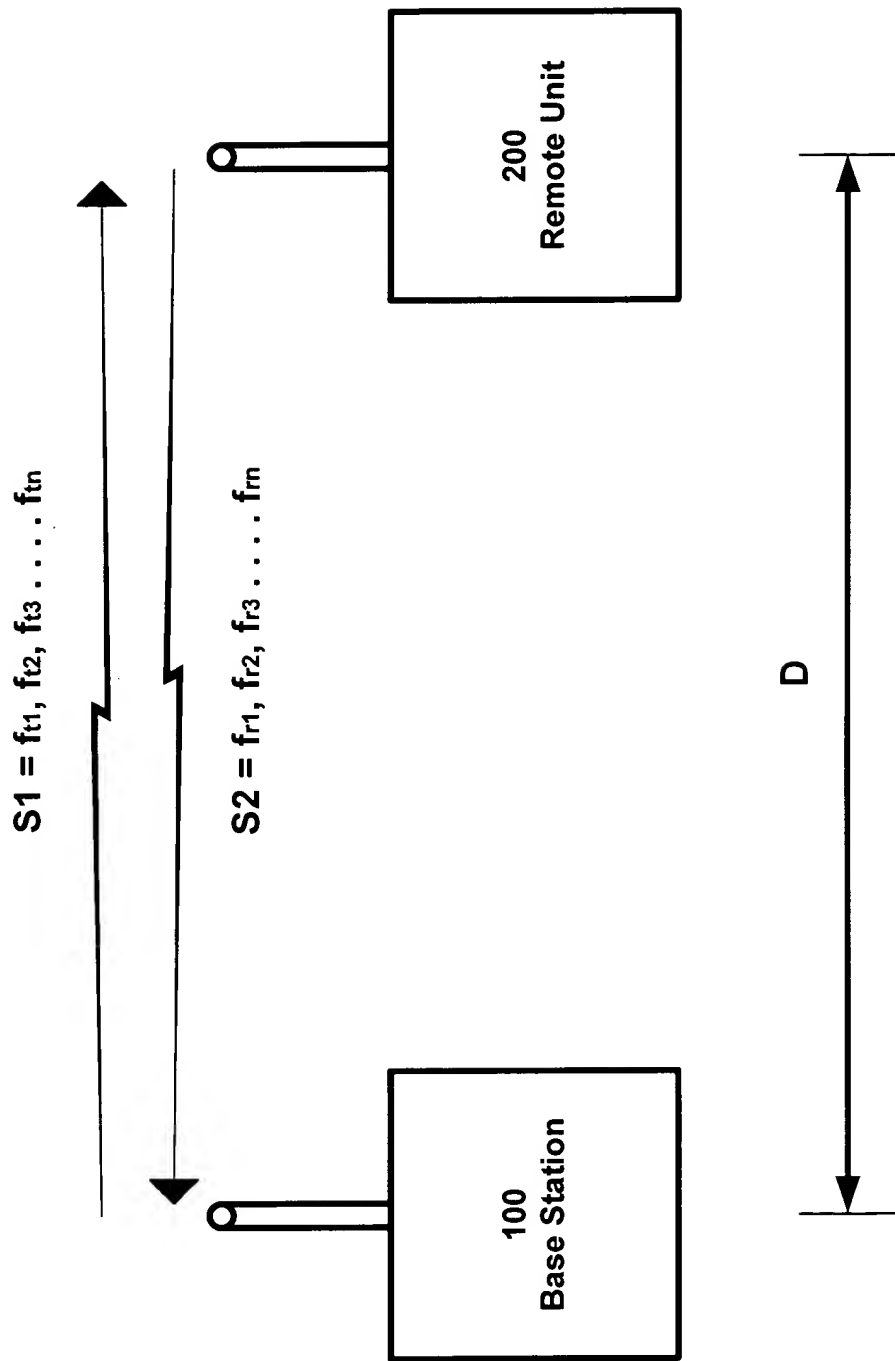


Fig. 2

100

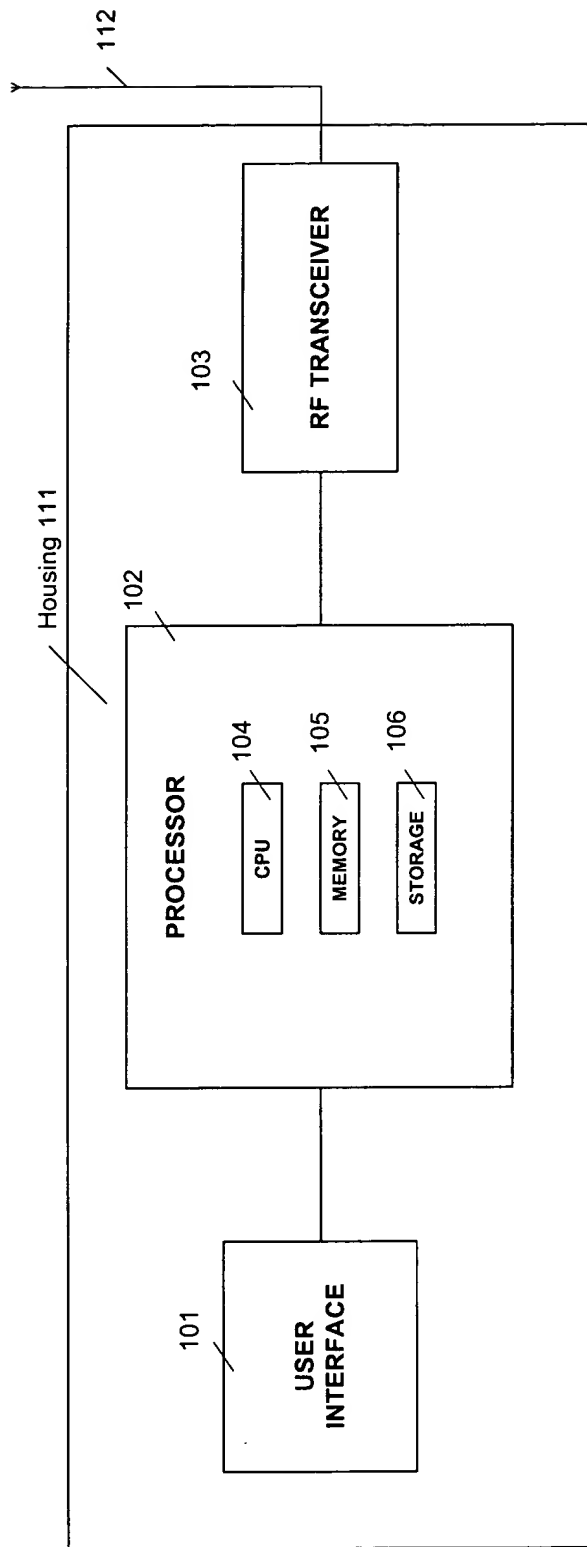


FIG. 3A

100

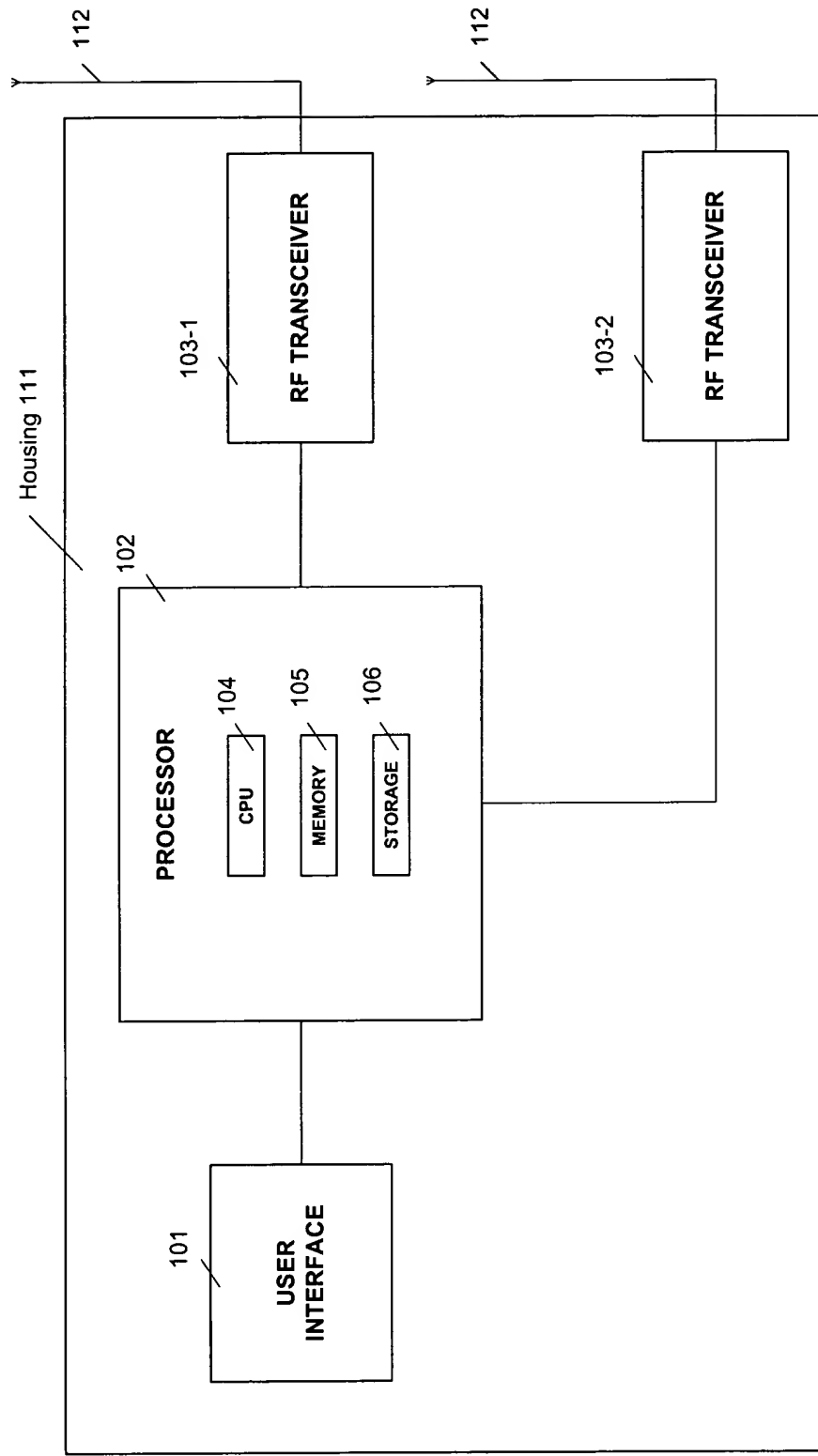


FIG. 3B

FIG. 3C

100

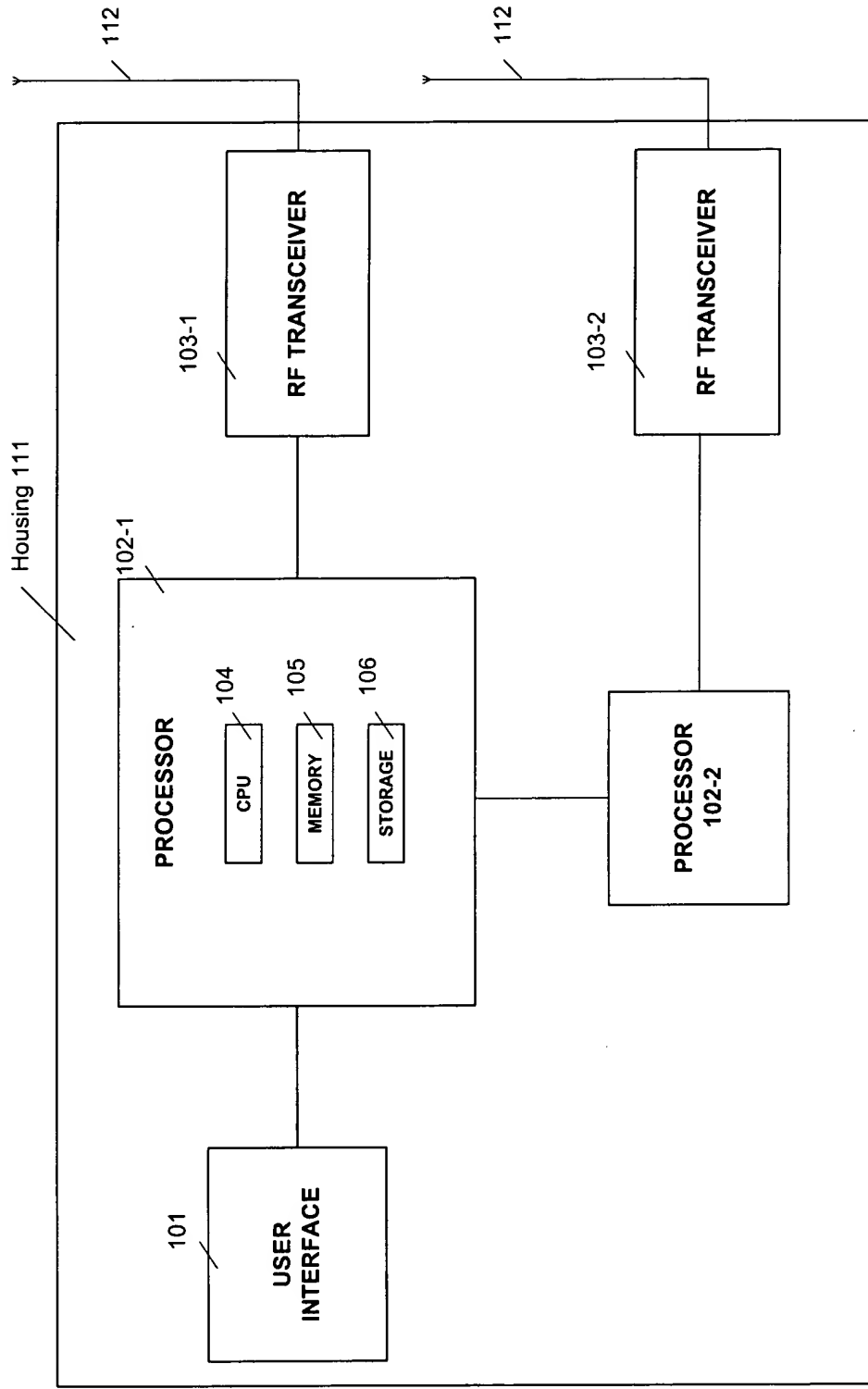


FIG. 3C

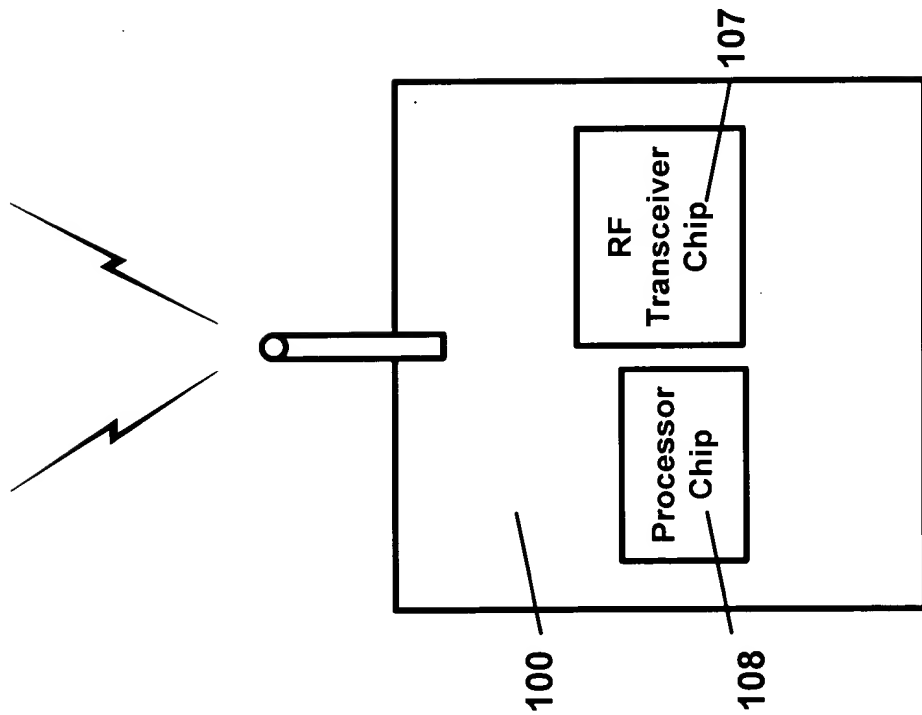


Fig. 4A

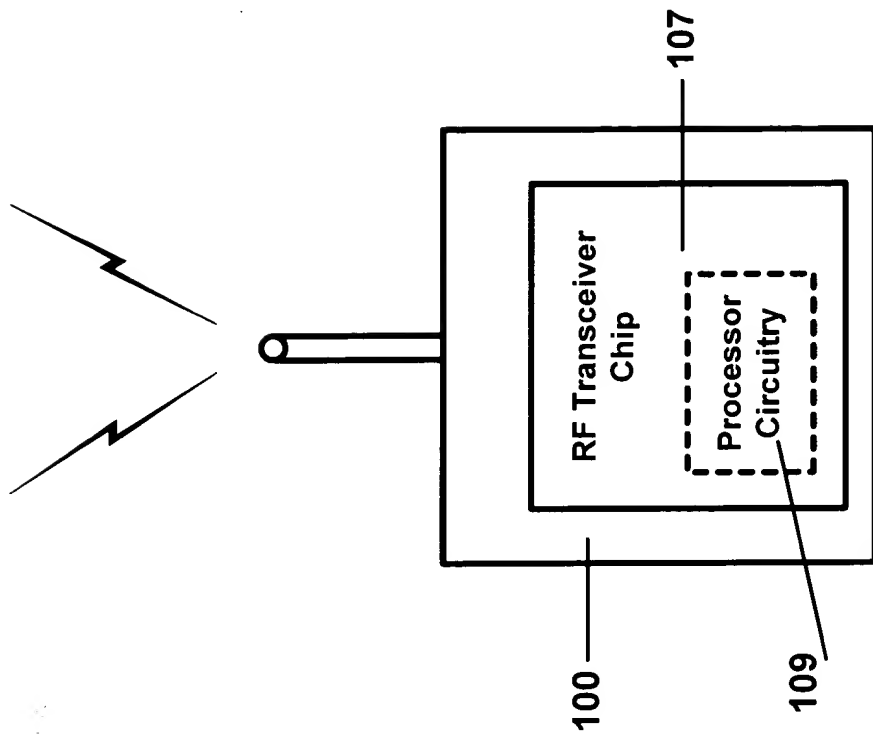


Fig. 4B

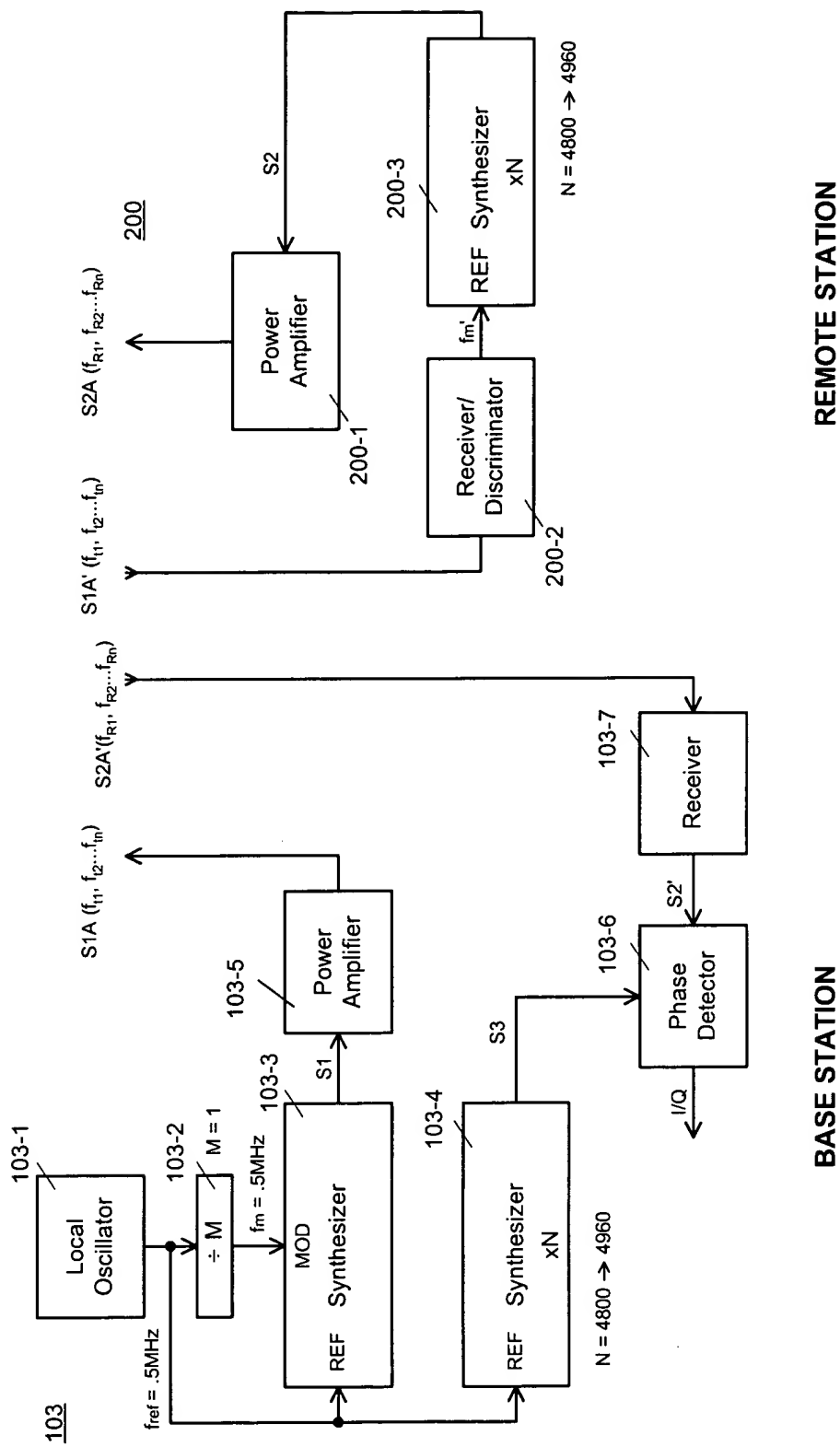


FIG. 5

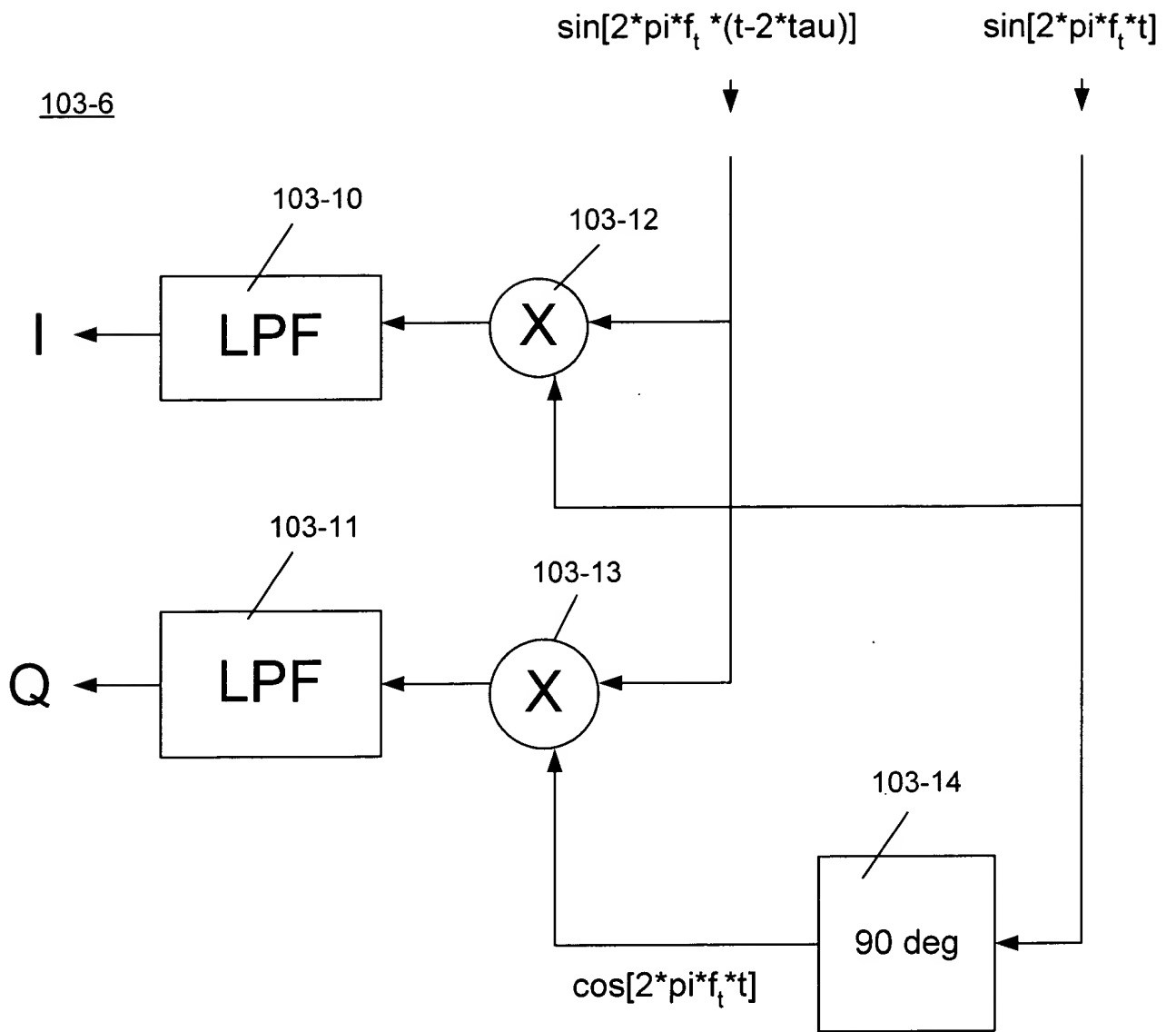
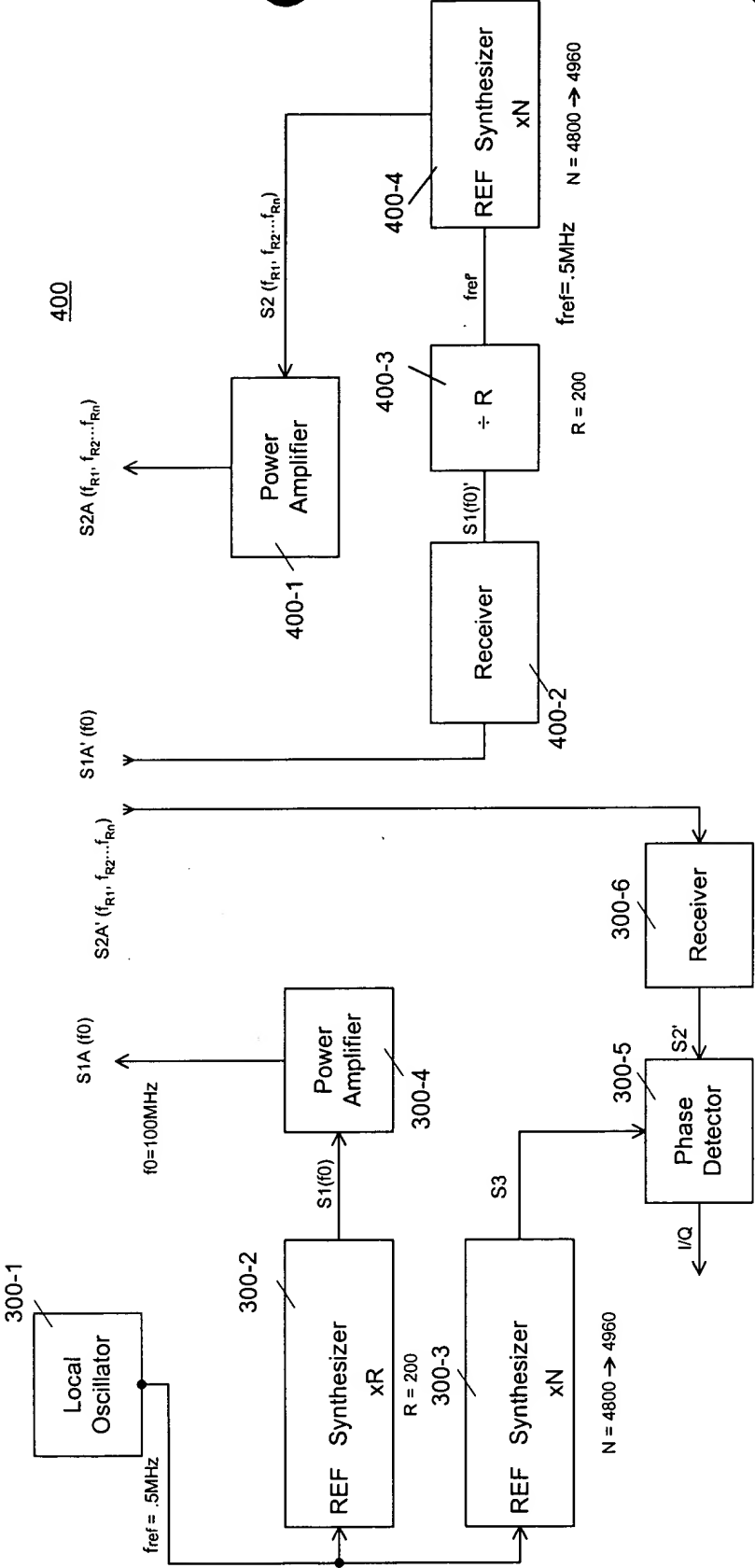


Fig. 6

300

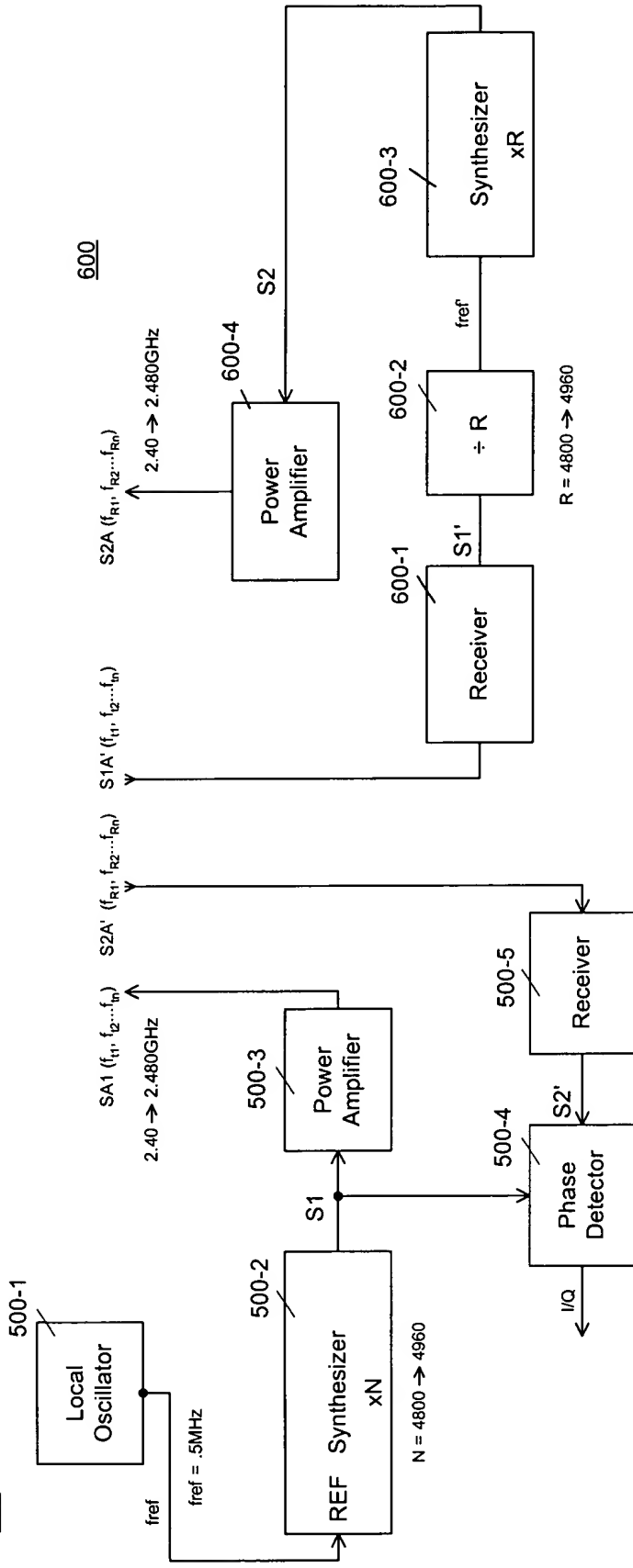


BASE STATION

REMOTE STATION

FIG. 7

500



BASE STATION

FIG. 8

REMOTE STATION

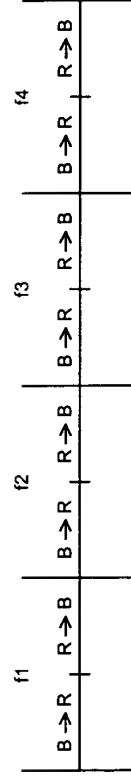


FIG. 9

Figure 10A

Amplitude vs. Frequency
Direct path = 20ns, echo = 80ns.

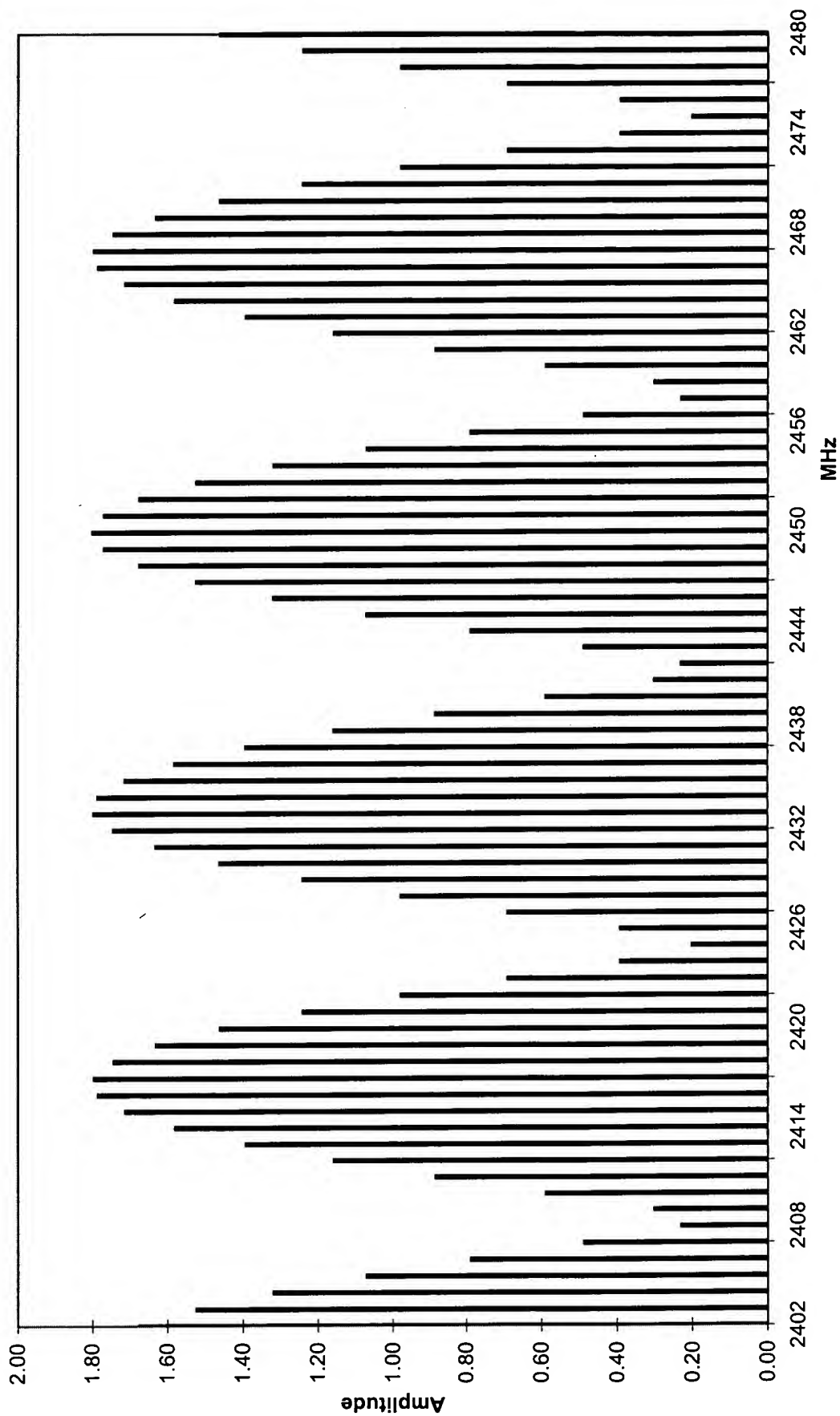
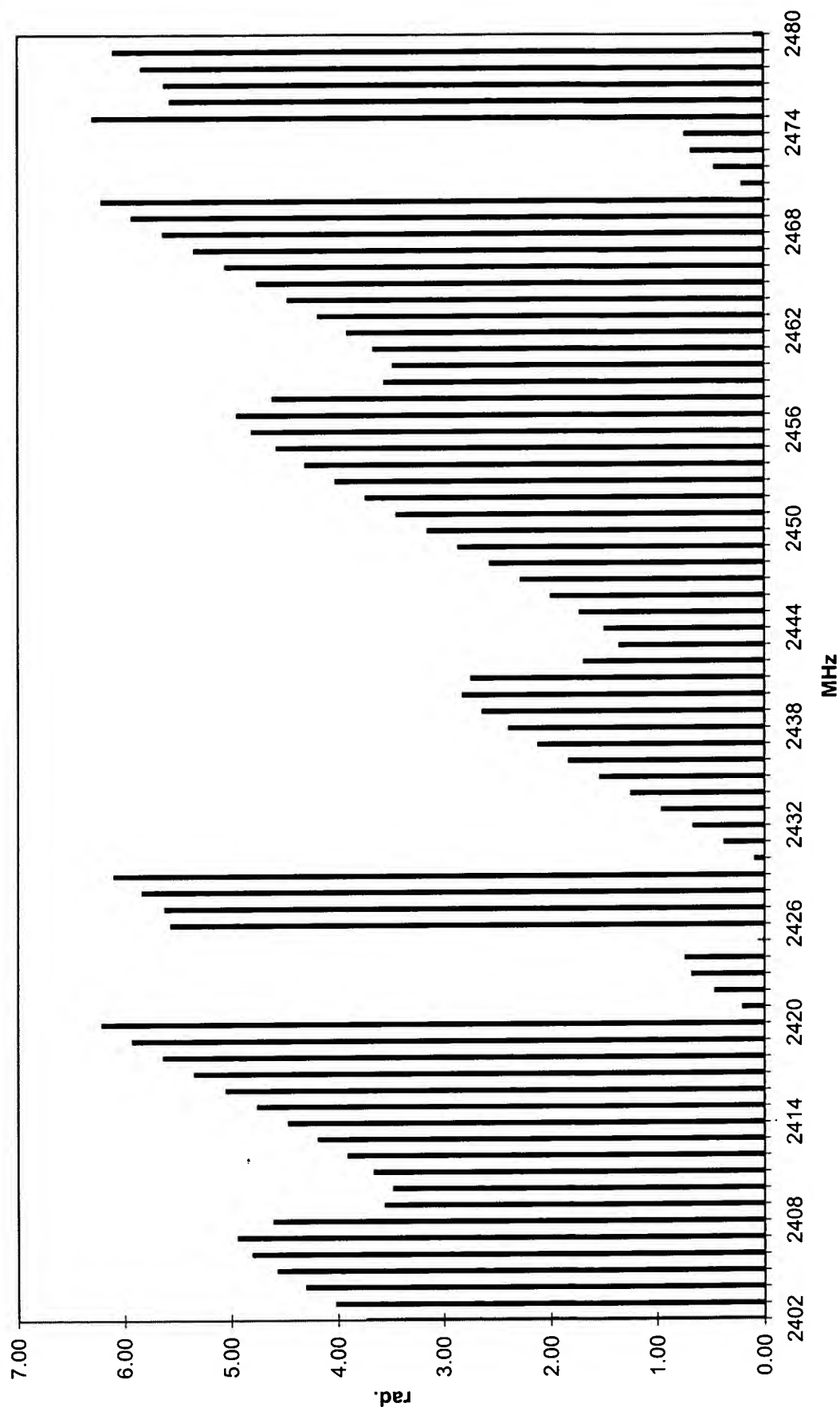


Figure 10B

Phase shift vs. Frequency

Direct path = 20ns, echo = 80ns.



FFT of IFFT Result
Direct Path = 20ns, echo = 80ns.

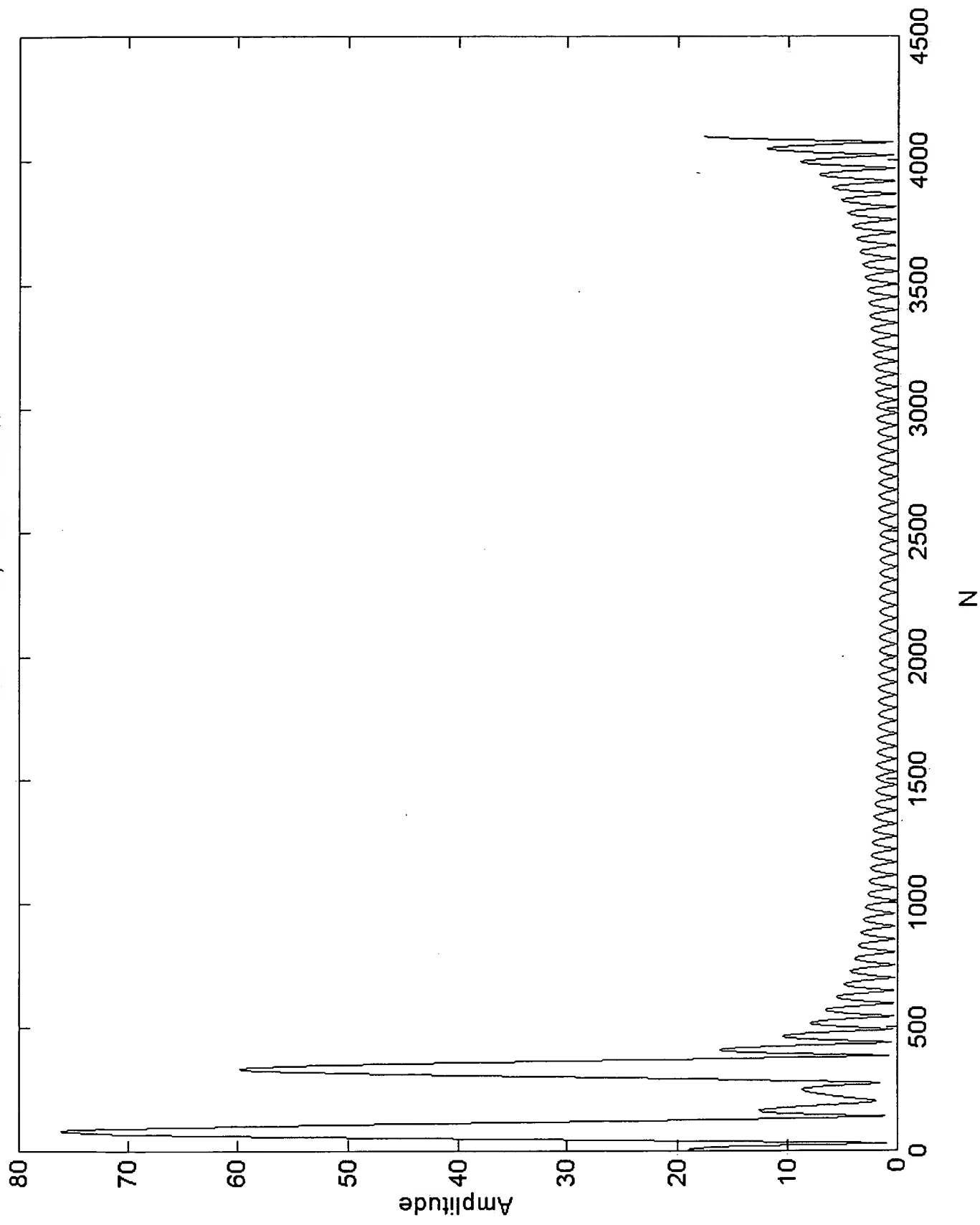


FIGURE 10C

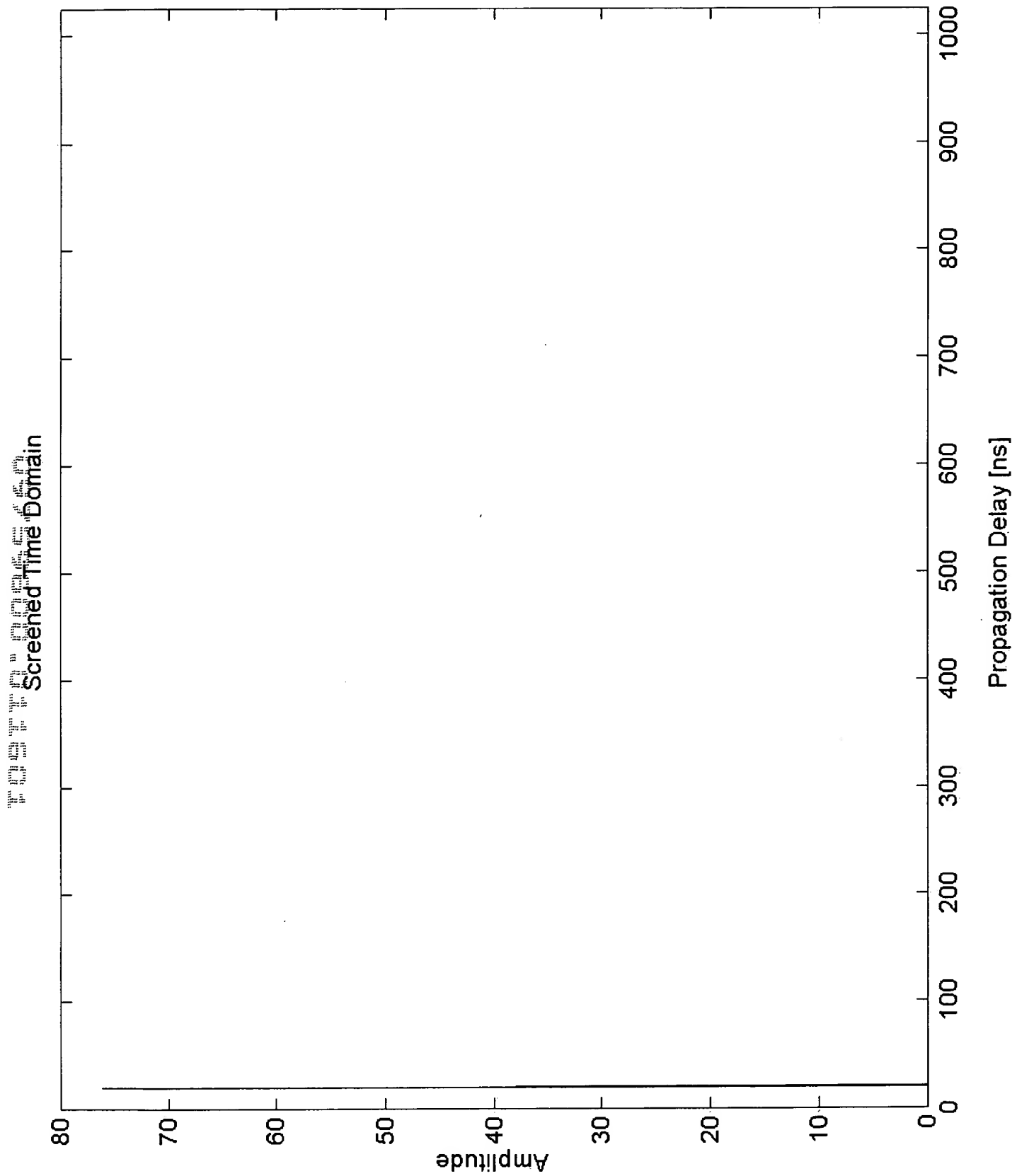


FIGURE 10D

FIG 10E FFT Reconstructed Phase

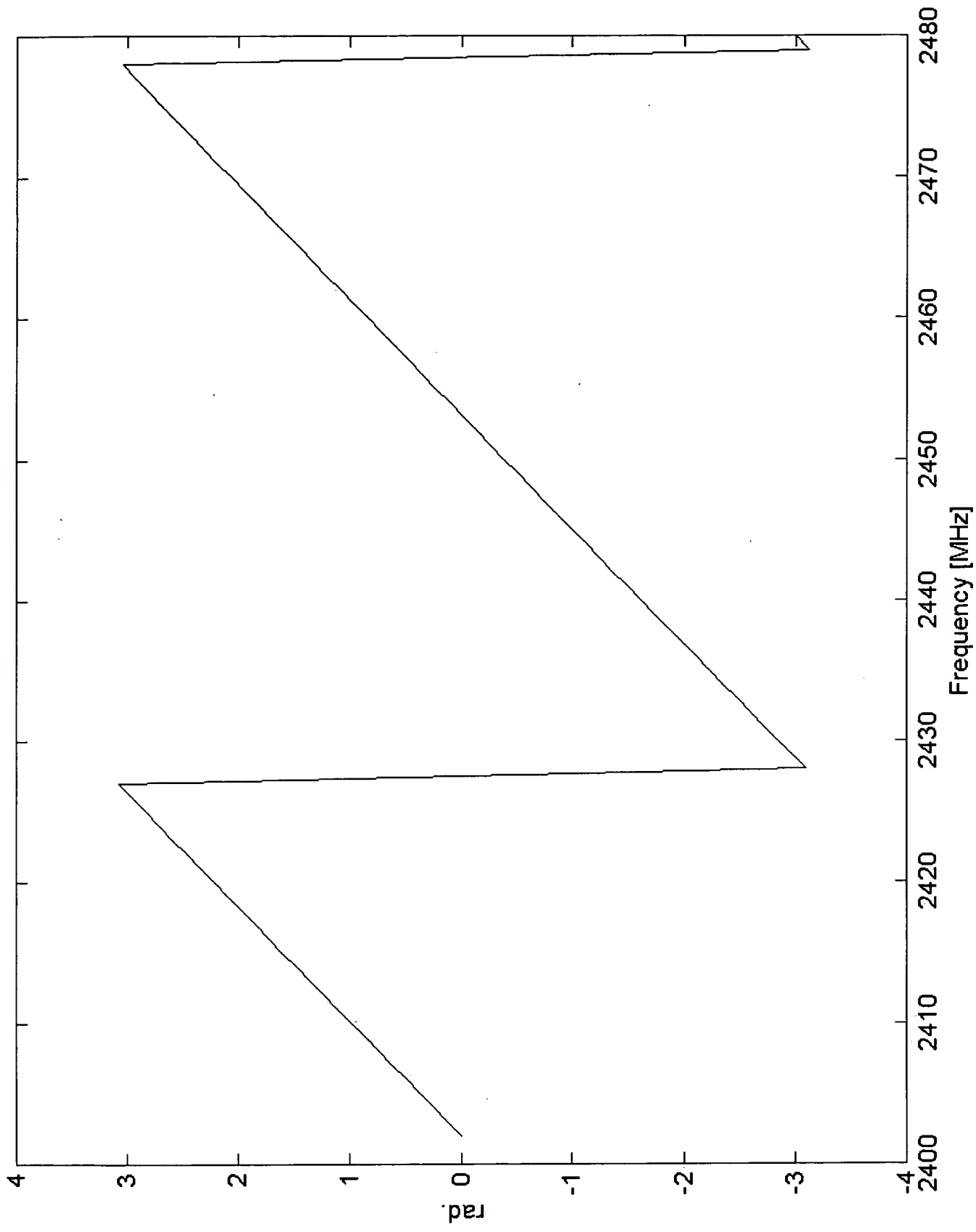
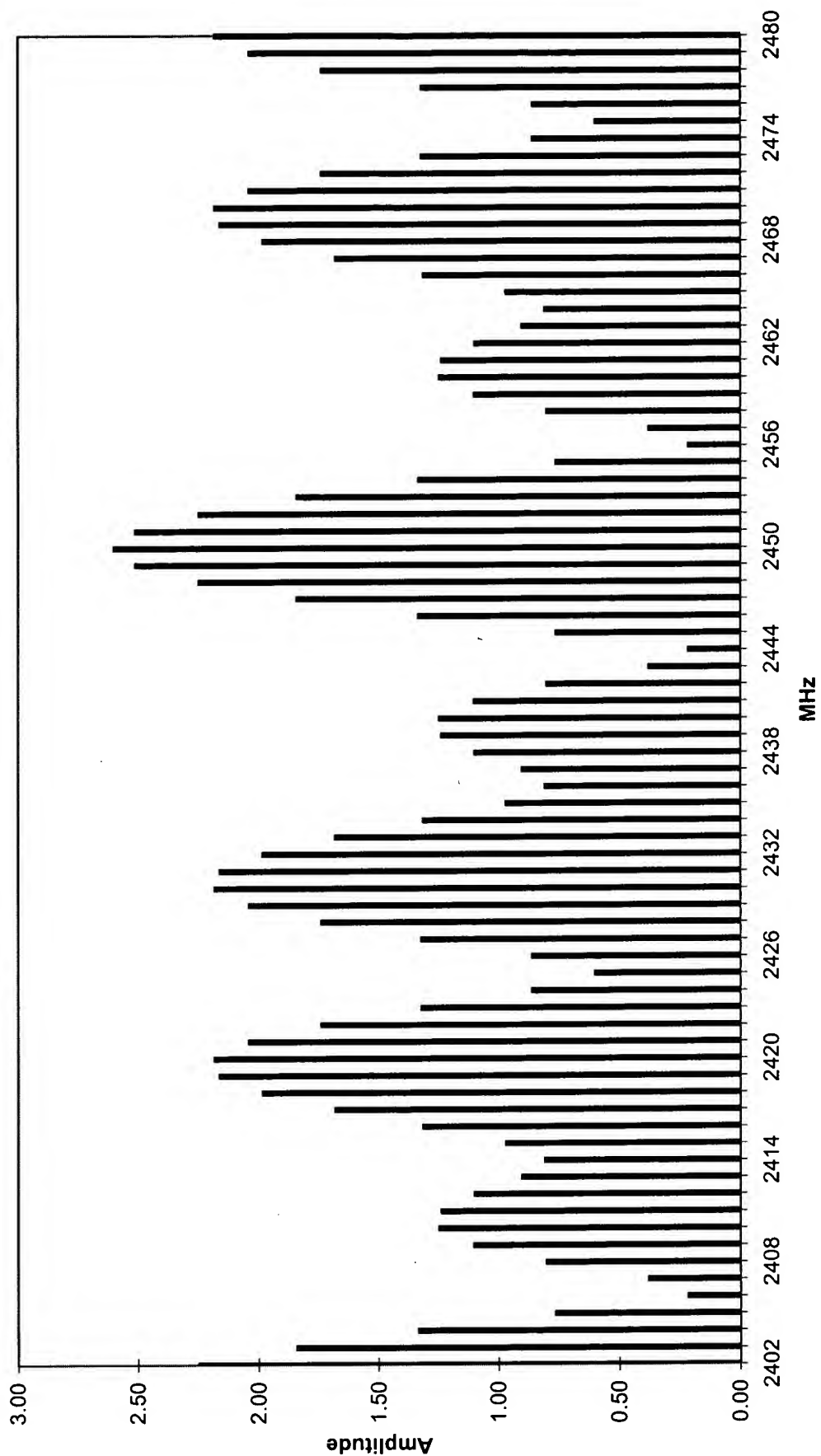


FIGURE 10E

Figure 11A
Amplitude vs. Frequency
 Direct path = 20ns, echos = 80ns, 120ns.



IFFT Result
Direct Path = 20ns, echos=80ns, 120ns.

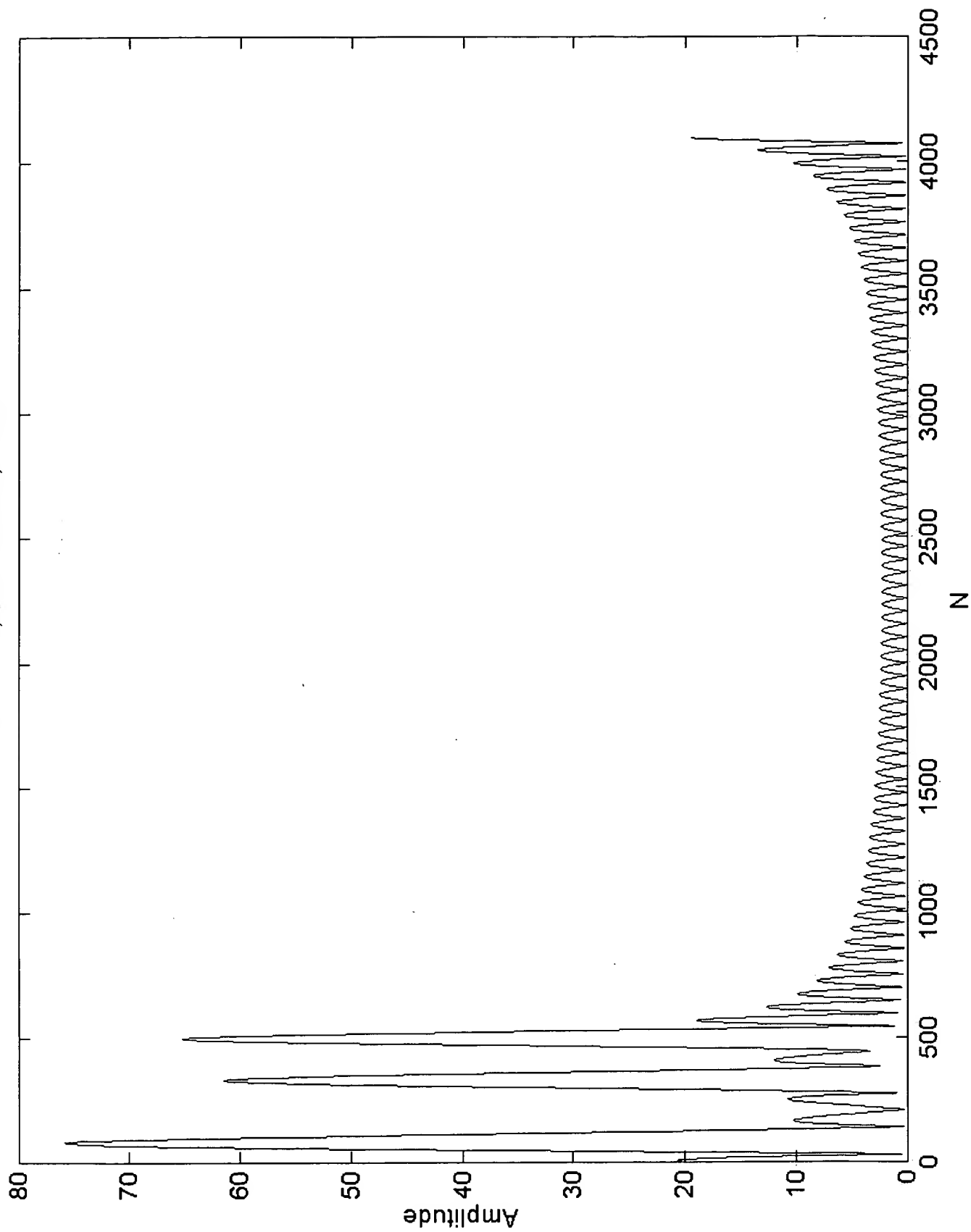


FIGURE 11C

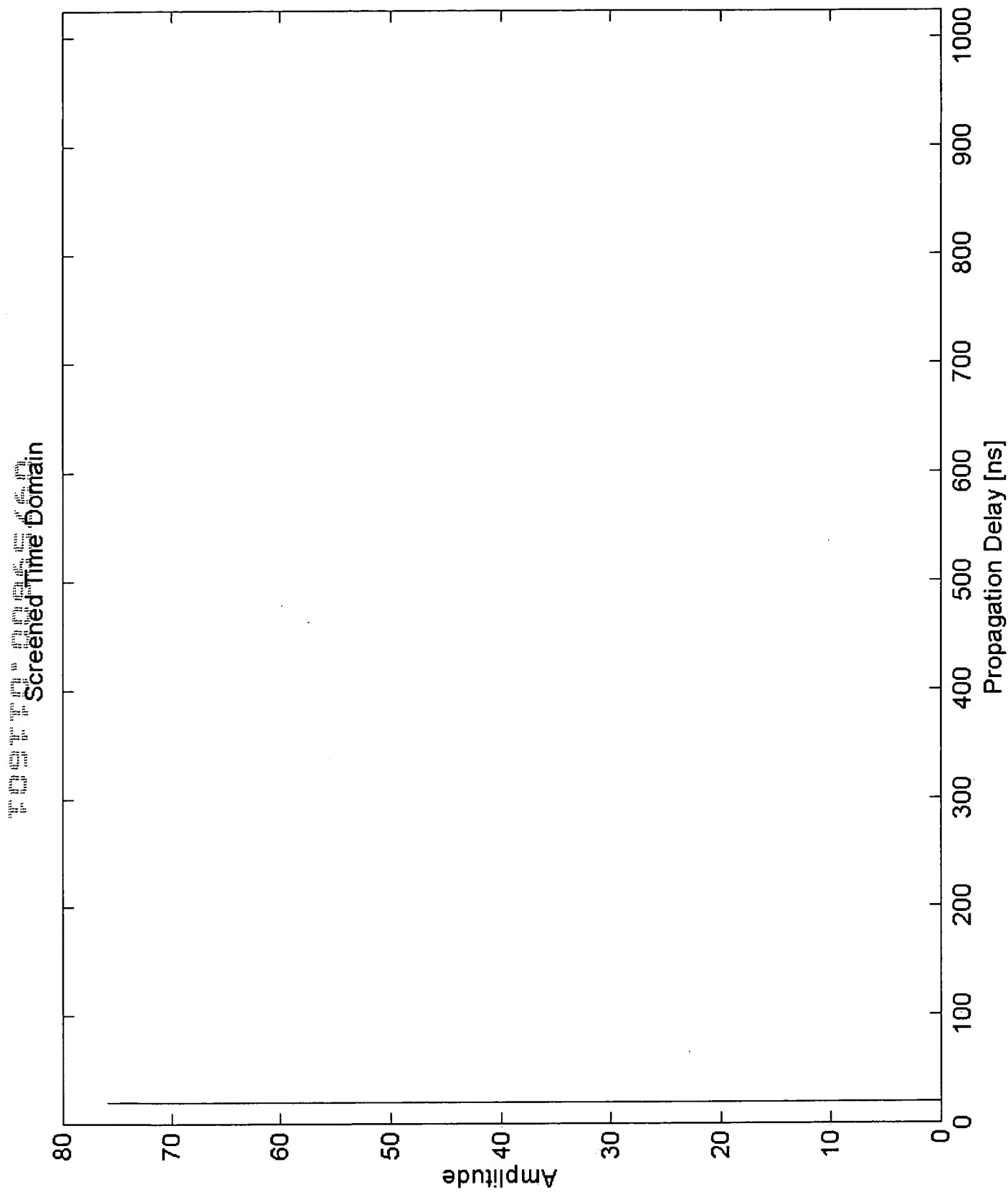


FIGURE 11D

FOE FRT Reconstructed Phase

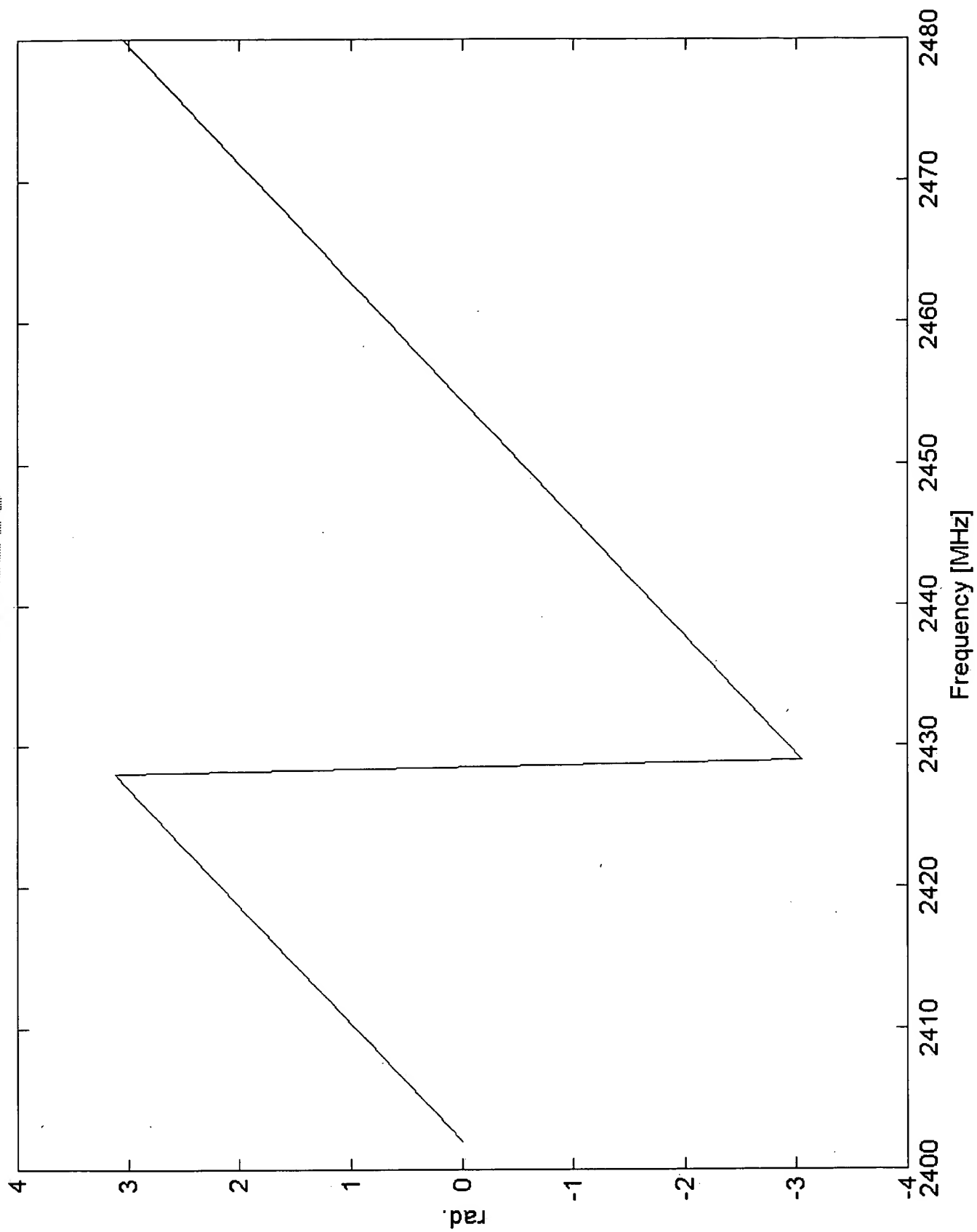


FIGURE 11E

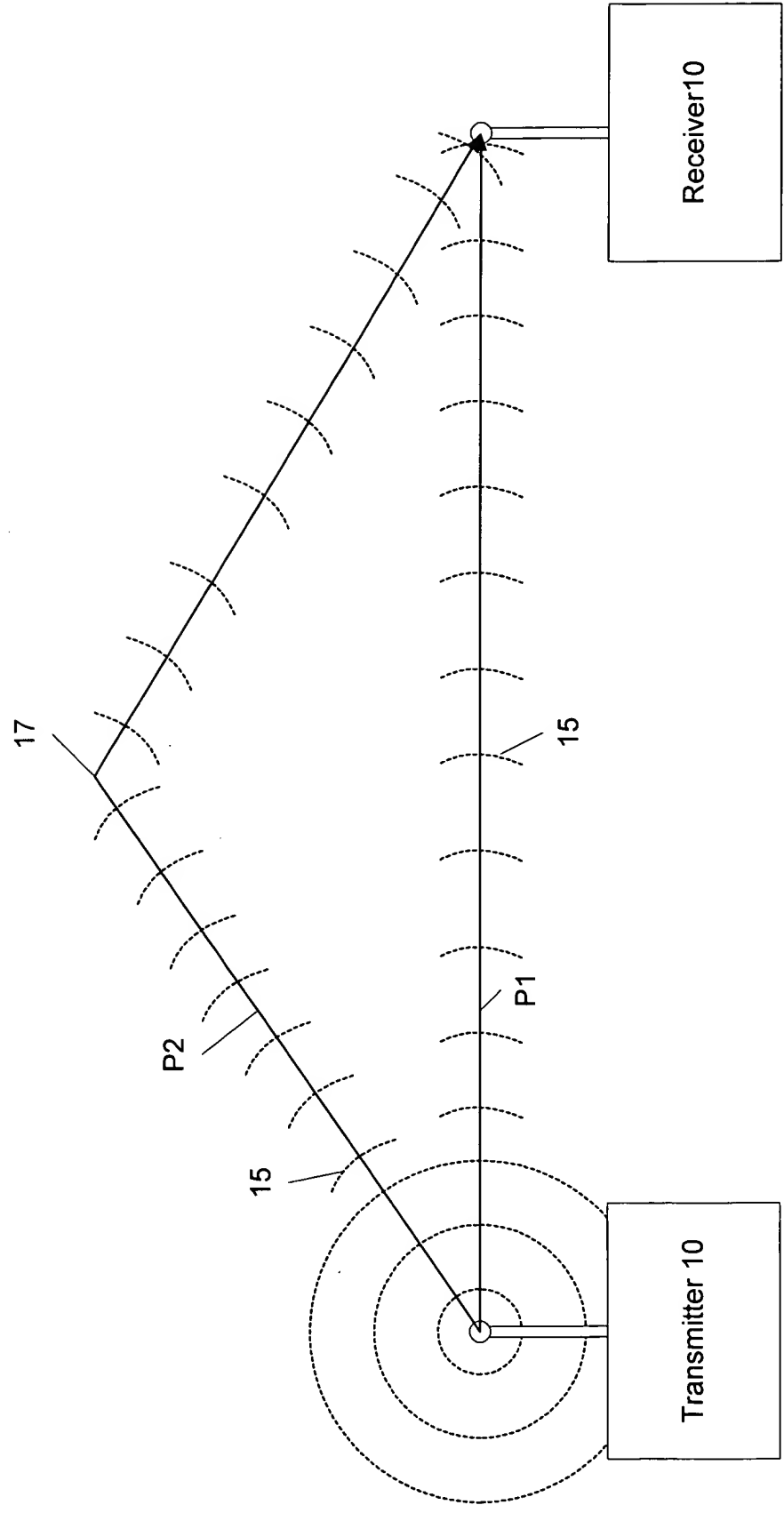


FIGURE 12